

1C780 U.S.P.T.O.  
09/592003  
06/12/00



Please type a plus sign (+) inside this box →

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

Declaration Submitted with Initial Filing       Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	EGG-PI-612A1a
First Named Inventor	Kevin M. McHugh
<b>COMPLETE IF KNOWN</b>	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Rapid Solidification Processing System for Producing Molds, Dies and Related Tooling

the specification of which

(Title of the Invention)

is attached hereto

OR

was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number  and was amended on (MM/DD/YYYY)  (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			<input type="checkbox"/>	<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/01 (12-97) Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
07/983,459	11/30/92	
08/320,032	10/07/94	5718863
09/023,037	02/13/98	

Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:  Customer Number  →  Place Customer Number Bar Code Label here  
 Registered practitioner(s) name/registration number listed below

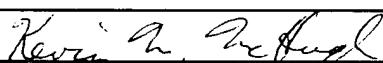
Name	Registration Number	Name	Registration Number
Alan D. Kirsch	33,720		

Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to:  Customer Number  OR  Correspondence address below

Name	Alan D. Kirsch				
Address	Bechtel BWXT Idaho, LLC				
Address	P. O. Box 1625				
City	Idaho Falls	State	ID	ZIP	83415-3899
Country	US	Telephone	208-526-1371	Fax	208-526-8339

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])				Family Name or Surname				
Kevin M.				McHugh				
Inventor's Signature							Date	6/13/00
Residence: City	Idaho Falls	State	ID	Country	US	Citizenship	US	
Post Office Address	2846 Sandstone Drive							
Post Office Address								
City	Idaho Falls	State	ID	ZIP	83404	Country	US	

Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

PC780 USPTO  
06/12/00  
09/592003  
PRO

## PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached documents or copy thereof.

1. Name of conveying party(ies):

Kevin M. McHugh

3. Nature of Conveyance:

[X] Assignment      [ ] Merger  
 [ ] Security Agreement      [ ] Change of Name  
 [ ] Other \_\_\_\_\_

Execution Date: June 12, 2000

2. Name and address of receiving party(ies):

Name Bechtel BWXT Idaho, LLC  
 Internal Address: \_\_\_\_\_  
P. O. Box 1625, Idaho Falls, ID 83415-3805

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional names(s) and address(es) attached:  
 [ ] Yes      [X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of this application  
 is: June 12, 2000

A. Patent Application No.(s)

B. Patent No. (s)

Additional numbers attached: [ ] Yes      [ X ] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patricia ButikoferInternal Address: Bechtel BWXT Idaho, LLC  
P. O. Box 1625, Idaho Falls, ID 83415-3805

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

6. Total number of applications and patents involved:  
 [ 1 ]7. Total fee (37 CFR 3.41. .... \$ 40.00

[ ] Enclosed

[X] Authorized to charge to Deposit Account

8. Deposit Account Number

05-0565

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy  
 Is a true copy of the original document.

Patricia Butikofer

Name of Person Signing

Patricia Butikofer 6-12-00

Signature

Date

Total number of pages including cover sheet, attachments and document [ 3 ]

PATENT ASSIGNMENT

WHEREAS, I Kevin M. McHugh, a citizen of the United States, residing in Idaho Falls, County of Bonneville, State of Idaho, have invented certain new and useful improvements in the RAPID SOLIDIFICATION PROCESSING SYSTEM FOR PRODUCING MOLDS, DIES AND RELATED TOOLING, for which I am about to file an application for United States Letters Patent identified as EGG-PI-612A1a; and executed by me on June 12, 2000; and,

WHEREAS, Bechtel BWXT Idaho, LLC desires to acquire the entire right, title, and interest in and to the said invention and in and to any Letters Patent wherever they may be issued thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for other good and valuable consideration, I by these presents do sell, assign, and transfer unto the said Bechtel BWXT Idaho, LLC and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, the same to be held and enjoyed by Bechtel BWXT Idaho, LLC to the full end of the term or terms for which Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by me had this assignment not been made.

I agree to make, execute, and deliver unto Bechtel BWXT Idaho, LLC any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms, and contents as may be required by Bechtel

BWXT Idaho, LLC or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said application may encounter or in which they may become involved, and I agree that I will aid Bechtel BWXT Idaho, LLC or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with Bechtel BWXT Idaho, LLC.

WITNESS:

Patricia Butcher

INVENTOR:

Kevin M. McHugh  
Kevin M. McHugh  
Date 6/12/00